

GenCore version 5.1.4 p5_4578
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 1, 2003, 17:50:28 ; Search time 73 Seconds
(without alignments)
414.355 Million cell updates/sec

Title: US-09-869-388-6

Perfect score: 1192

Sequence: 1 MGRPLLLPLLLQLPPAFILQ.....CLLLWRRKGRAPSSDF 227

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

A_Geneseq_101002:*

- 1: /SID22/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
- 2: /SID22/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
- 3: /SID22/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
- 4: /SID22/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
- 5: /SID22/gcgdata/geneseq/geneseq-emb1/AA1984.DAT:*
- 6: /SID22/gcgdata/geneseq/geneseq-emb1/AA1985.DAT:*
- 7: /SID22/gcgdata/geneseq/geneseq-emb1/AA1986.DAT:*
- 8: /SID22/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:*
- 9: /SID22/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:*
- 10: /SID22/gcgdata/geneseq/geneseq-emb1/AA1989.DAT:*
- 11: /SID22/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:*
- 12: /SID22/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:*
- 13: /SID22/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:*
- 14: /SID22/gcgdata/geneseq/geneseq-emb1/AA1993.DAT:*
- 15: /SID22/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:*
- 16: /SID22/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:*
- 17: /SID22/gcgdata/geneseq/geneseq-emb1/AA1996.DAT:*
- 18: /SID22/gcgdata/geneseq/geneseq-emb1/AA1997.DAT:*
- 19: /SID22/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:*
- 20: /SID22/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:*
- 21: /SID22/gcgdata/geneseq/geneseq-emb1/AA2000.DAT:*
- 22: /SID22/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
- 23: /SID22/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1192	100.0	227	21 AAB07445	A human monocyste-d
2	1192	100.0	291	19 AAW63682	Human secreted pro
3	1192	100.0	326	22 ABB12010	Human secreted pro
4	1179	98.9	227	21 AAY87230	Human signal pepti
5	1163.5	97.6	226	20 AA050815	Human LSP-1 protei
6	1163.5	97.6	226	21 AAB07447	A human monocyste-d
7	1157.5	97.1	226	19 AAW80407	A secreted protein
8	1157.5	97.1	226	23 ABP61825	Human polypeptide
9	958	80.4	303	19 AAW62772	Human immunoglobul
10	958	80.4	303	21 AAB07443	A human monocyste-d

11	752	63.1	1012	22 AAB00509	Novel human diagno
12	752	63.1	1012	22 ABB02851	Novel human diagno
13	752	63.1	1012	22 ABB16869	Novel human diagno
14	752	63.1	1012	22 ABB21403	Novel human diagno
15	744	62.4	230	21 AAB07444	A human monocyste-d
16	742.5	62.3	175	21 AAB07446	A human monocyste-d
17	532	44.6	101	19 AAW75053	Fragment of human
18	370	31.0	224	23 ABB72387	Murine protein iso
19	223	18.7	99	19 AAW62773	Partial mouse immu
20	118	9.9	271	23 AAU72792	Human anticancer p
21	117	9.8	52	13 AAW74893	Human secreted pro
22	114	9.6	143	20 AAY07485	Anti-HIV-1 gp120 a
23	114	9.6	565	22 AAB19873	Activating polypep
24	112	9.4	352	20 AAY06272	Anti-Fc gamma rece
25	111	9.3	246	23 AAE20273	Human lung specifi
26	110.5	9.3	310	20 AAW83324	Single chain Apo-2
27	110.5	9.3	310	23 ABB09605	Amino acid sequenc
28	110.5	9.3	448	23 AAM49203	Humanised monoclon
29	108.5	9.1	555	22 AAB19871	Activating polypep
30	107.5	9.0	440	20 AAY17830	Human PRO355 prote
31	107.5	9.0	440	21 AAB01321	Human PRO355 polyp
32	107.5	9.0	440	22 AAU29040	Human PRO polypept
33	107.5	9.0	442	21 AAB25619	Protein encoded by
34	107.5	9.0	442	21 AAY43411	Human cell surface
35	107.5	9.0	442	21 AAY45092	Human lymphoid der
36	107.5	9.0	442	23 AAE19887	Human tumour suppr
37	106.5	8.9	247	23 ABP45283	Human Blys binding
38	106.5	8.9	423	21 AAY45093	Mouse lymphoid der
39	106	8.9	250	23 ABP46062	Human Blys binding
40	106	8.9	354	21 AAY82515	Anti-HA pseudo rec
41	105.5	8.9	244	20 AAY06718	Antibody 12E10 sin
42	105	8.8	313	22 AAE02639	Human DNAX surface
43	104.5	8.8	266	23 ABB35336	Thrombopoietin ago
44	103.5	8.7	239	22 AAB46054	Human TF anti-idio
45	103.5	8.7	247	23 ABP45317	Human Blys binding

ALIGNMENTS

RESULT 1
AAB07445
ID AAB07445 standard; Protein; 227 AA.
AC AAB07445;
XX
XX 20-OCT-2000 (first entry)
DT
DB A human monocyste-derived protein FDF03-S1.
XX
XX Human, monocyste-derived protein; FDF03; FDF03deltaTM; FDF03-S1;
KW FDF03-M14; FDF03-S2; haematopoietic cell; monocyste hyperplasia;
KW tissue rejection; inflammation; infection.
XX
XX Homo sapiens.
OS
XX
XX
XX
XX Key Location/Qualifiers
XX Peptide 1..17
XX Protein /note= "signal sequence"
XX /note= "mature protein"
XX
XX WO2000040721-A1.
PN
XX
XX 13-JUL-2000.
PD
XX
XX 29-DEC-1999; 99WO-US30004.
PF
XX
XX 31-DEC-1998; 98US-0223919.
PR
XX
XX 31-DEC-1998; 98US-0224604.
PA
XX (SCHE) SCHERING CORP.
XX

PI Bates E, Fournier N, Chaulus L, Garrone P;
 DR WPI, 2000-465984/40.
 DR N-PSDB; AAW5816.
 XX
 PT Novel monocytic-derived polypeptides and polynucleotides, used to
 PT diagnose diseases associated with changes in monocyte numbers, e.g.
 PT bacterial or viral infections -
 XX
 PS Claim 1; Page 37-38; 45pp; English.
 XX
 CC The present sequence represents a human monocyte-derived protein. The
 CC specification describes monocyte-derived proteins PPF03, PPF03DeltaTM,
 CC PPF03-S1, PPF03-M14, and PPF03-S2. The proteins are involved in the
 CC regulation, or development, of haematopoietic cells. Antibodies specific
 CC for antigenic components of the proteins can be used to detect the
 CC components in samples. The proteins can also be used to screen for
 CC candidate therapeutic agents. The monocyte-derived proteins and
 CC polynucleotides can be used for diagnosis of diseases related to an
 CC increase, or decrease, in the number of monocytes in a tissue or
 CC lymph system, such as monocyte hyperplasia, tissue or graft rejection,
 CC inflammation, or bacterial or viral infections. The proteins can also
 CC be used in the treatment of disorders associated with abnormal expression
 CC or signalling by a monocyte.
 XX
 SQ Sequence 227 AA;
 CC
 Query Match 100.0%; Score 1192; DB 21; Length 227;
 Best Local Similarity 100.0%; Pred. No. 5.1e-99;
 Matches 227; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGRPLLLPLLLLOPPAFLOPGSTGSPSYLVGVTPQKHLASMGSGVEIPFSFYFWE 60
 Db 1 MGRPLLLPLLLLOPPAFLOPGSTGSPSYLVGVTPQKHLASMGSGVEIPFSFYFWE 60
 QY 61 LAIVPNVRISWRGPHGQSFYSTRPSTHKDYVNLFLNWTGEGSGFLRISNLRKEDQ 120
 Db 61 LAIVPNVRISWRGPHGQSFYSTRPSTHKDYVNLFLNWTGEGSGFLRISNLRKEDQ 120
 QY 121 SVYFCRVELDTRRSGRQQLQSIKGTKLITQAVTTTTWRPSTTTIAGLRVTSKGHSE 180
 Db 121 SVYFCRVELDTRRSGRQQLQSIKGTKLITQAVTTTTWRPSTTTIAGLRVTSKGHSE 180
 QY 181 SWHLSLDTAIRVALAVAVLTKVILGLLCILLWRRRKGSRAPSSDF 227
 Db 181 SWHLSLDTAIRVALAVAVLTKVILGLLCILLWRRRKGSRAPSSDF 227
 RESULT 2
 ID AAW63682
 XX AAW63682 standard; Protein; 291 AA.
 AC AAW63682;
 XX
 DT 24-SEP-1998 (first entry)
 DE Human secreted protein 2.
 XX
 KW Secreted protein; human; cell proliferation; cytokine activity;
 KW tissue growth; cellular differentiation; regeneration; activin;
 KW inhibin; chemotactic; haemostatic; thrombolytic; tumour inhibition;
 KW anti-inflammatory activity; biomarker.
 XX
 OS Homo sapiens.
 XX
 PN W09825959-A2.
 XX
 PD 18-JUN-1998.
 XX
 PF 11-DEC-1997; 97WO-US22787.
 XX
 PR 11-DEC-1996; 96US-0032757.
 XX

PA (CHIR) CHIRON CORP.
 XX Escobedo J, Garcia P, Hu Q, Kothakota S, Williams LT;
 PI WPI; 1998-348453/30.
 DR N-PSDB; AAV43602.
 XX
 PT Secreted human polypeptides - having cytokine, cell proliferation or
 PT differentiation, activin or inhibin, tumour inhibition or
 PT anti-inflammatory activities
 XX
 PS Claim 1; Pages 49-50; 78pp; English.
 XX
 CC This represents a human secreted protein. The specification provides
 CC secreted protein sequences (AAW63681 to AAW63699) encoded by the nucleic
 CC acid sequences shown in AAV43601 to AAV43619. The invention provides a
 CC method of identifying a secreted polypeptide which is modified by rough
 CC microsomes. The secreted proteins can be used in assays to determine
 CC biological activities, such as cytokine, cell proliferation, or cellular
 CC differentiation activities, tissue growth or regeneration, activin or
 CC inhibin activity, chemotactic or chemokinetic activity, haemostatic or
 CC thrombolytic activity, receptor/ligand activity, tumour inhibition, or
 CC anti-inflammatory activity. The proteins can also be used as
 CC biomarkers, to identify tissues or cell types which express the proteins,
 CC or a stage- or disease-specific alteration in protein expression. They
 CC can be used in protein interaction assays, to identify ligands or binding
 CC proteins. Compounds which affect the biological activities of the
 CC secreted proteins or their ability to interact with specific ligands can
 CC be identified using the proteins in screening assays. The proteins and
 CC antibodies that bind specifically to the protein can also be used to
 CC design diagnostic tests and therapeutic compositions for diseases which
 CC may be associated with altered expression of these proteins. Fusion
 CC proteins comprising, e.g. signal sequences or transmembrane domains of
 CC the proteins can be used to target other protein domains to cellular
 CC membrane or they can be secreted extracellularly.
 XX
 SQ Sequence 291 AA;
 CC
 Query Match 100.0%; Score 1192; DB 19; Length 291;
 Best Local Similarity 100.0%; Pred. No. 6.9e-99;
 Matches 227; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MGRPLLLPLLLLOPPAFLOPGSTGSPSYLVGVTPQKHLASMGSGVEIPFSFYFWE 60
 Db 65 MGRPLLLPLLLLOPPAFLOPGSTGSPSYLVGVTPQKHLASMGSGVEIPFSFYFWE 124
 QY 61 LAIVPNVRISWRGPHGQSFYSTRPSTHKDYVNLFLNWTGEGSGFLRISNLRKEDQ 120
 Db 125 LAIVPNVRISWRGPHGQSFYSTRPSTHKDYVNLFLNWTGEGSGFLRISNLRKEDQ 184
 QY 121 SVYFCRVELDTRRSGRQQLQSIKGTKLITQAVTTTTWRPSTTTIAGLRVTSKGHSE 180
 Db 185 SVYFCRVELDTRRSGRQQLQSIKGTKLITQAVTTTTWRPSTTTIAGLRVTSKGHSE 244
 QY 181 SWHLSLDTAIRVALAVAVLTKVILGLLCILLWRRRKGSRAPSSDF 227
 Db 245 SWHLSLDTAIRVALAVAVLTKVILGLLCILLWRRRKGSRAPSSDF 291
 RESULT 3
 ID ABB12010
 XX ABB12010 standard; peptide; 326 AA.
 AC ABB12010;
 XX
 DT 11-JAN-2002 (first entry)
 DE Human secreted protein homologue, SEQ ID NO:2380.
 XX
 KW Human; cytokine; cell proliferation; cell differentiation; growth factor;
 KW haematopoiesis regulation; tissue growth; immunomodulator; activin;
 KW inhibin; chemotaxis; chemokinesis; thrombolysis; oncogenesis;
 KW proliferation; metastasis; cancer; tumour; haematopoietic disorder;